

## PATENT COOPERATION TREATY

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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

07 FEB 2005

Applicant's or agent's file reference SY-03-P-13		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/CN03/00585		International filing date (day/month/year) 21. Jul 2003 (21.07.2003)	Priority date (day/month/year) 09. Aug 2002 (09.08.2002)
International Patent Classification (IPC) or national classification and IPC IPC <sup>7</sup> A63H 5/04			
Applicant YUAN, Xiaoming			
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and /or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of <u>1</u> sheet.</p>			
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application.</p>			
Date of submission of the demand 24. Nov 2003 (24.11.2003)		Date of completion of this report 23. Jul 2004 (22.07.2003)	
Name and mailing address of the IPEA/CN 6 Xitucheng Rd., Jimen Bridge, Haidian District, 100088 Beijing, China Facsimile No. 86-10-62019451		Authorized officer  Telephone No. 86-10-62084759	

Form PCT/IPEA/409(cover sheet)(July 1998)

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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/CN03/00585

## I. Basis of the report

### 1. With regard to the elements of the international application:\*

☐ the international application as originally filed

☒ the description:

pages 1, 2

, as originally filed

pages

, filed with the demand

pages

, filed with the letter of

☒ the claims:

Nos

, as originally file

Nos

, as amended (together with any statement) under Article 19

Nos

, filed with the demand

Nos 1-4

, filed with the letter of

17. May 2004 (17.05.2004)

☒ the drawings:

sheets/fig 1

, as originally filed

sheets/fig

, filed with the demand

sheets/fig

, filed with the letter of

☐ the sequence listing part of the description:

pages

, as originally filed

pages

, filed with the demand

pages

, filed with the letter of

### 2. with regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).

☐ the language of publication of the international application (under Rule 48.3(b)).

☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

### 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

### 4. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages

☐ the claims Nos.

☐ the drawings, sheets/fig

### 5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/CN03/00585**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement:**

Novelty (N)

Claims 1-4

YES

Claims

NO

Inventive step (IS)

Claims 1-4

YES

Claims

NO

Industrial applicability (IA)

Claims 1-4

YES

Claims

NO

**2. Citations and explanations (Rule 70.7)**

Claims 1-4 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a detonation producing toy device utilizing air pressure with the air pump and the return spring.

NEW CITATIONS

NONE

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## Claim

1. A kind of detonation production toy device, its character is that it includes: gun body 1, power switch 2, rubber film 3, trigger mechanism 4, air pump 5, reposition spring 6, seal body 7, gunpoint 8, rolling mechanism 9, power 10.

2. Said as in claim 1, the detonation production toy device, its character is: the rubber film 3 is made of latex or synthetic rubber, the thickness is less than 1mm, formed into strip shape, and also can be compounded with plastic film, and it is set between seal body 7 and gunpoint 8, it is moved to gunpoint 8 by seal body 7, fastens the rubber film 3 into seal part.

3. Said as in claim 1, the detonation production toy device, its character is: upside of the trigger mechanism 4 is a cam shape, and pushes the air pump 5 and seal body 7 to gunpoint 6 by lever force, and recover under the action of reposition spring.

4. Said as in claim 1, the detonation production toy device, its character is: rolling mechanism 9 is made of driver wheel, driven wheel and transmission mechanism, rubber film 3 rolls on the driven wheel first, then connected to driver wheel, with the rotation of driver wheel, rolls the detonated rubber film onto the driver wheel in succession, and sends the new rubber film to the gunpoint at the same time.

Rolling mechanism 9 does not connect with trigger mechanism, but connects with gun bolt outside of gun body 1, which is used to pull gun bolt to work the rolling mechanism 9, this also belongs to this claim.

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# 专利合作条约

## PCT

国际初步审查报告  
(PCT 条约 36 和细则 70)

REC'D 11 NOV 2004

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07 FEB 2004

申请人或代理人的档案号 SY-03-P-13	关于后续行为 参见“传送国际初步审查报告的通知”(PCT/IPEA/416 表)	
国际申请号 PCT/CN03/00585	国际申请日(日/月/年) 21.7 月 2003 (21.07.2003)	优先权日(日/月/年) 09.8 月 2002 (09.08.2002)
国际专利分类(IPC)或者国家分类和 IPC 两种分类 IPC <sup>7</sup> A63H 5/04		
申请人 袁小明		

1. 本国际初步审查单位已作出国际初步审查报告并依照条约第 36 条将其传送给申请人。

2. 本报告共计 3 页, 包括扉页。

☒ 本报告还有附件, 即修改后的并且作为本报告基础的说明书修改页、权利要求书修改页和/或附图修改页, 和/或对本国际初步审查单位所作出的更正页(见 PCT 细则 70.16 和行政规程 607)。

这些附件共计 1 页

3. 本报告包括关于下列各项的内容:

I ☒ 报告的基础

II ☐ 优先权

III ☐ 不作出关于新颖性、创造性和工业实用性的意见

IV ☐ 缺乏发明的单一性


V ☒ 按条约 35(2)关于新颖性、创造性或工业实用性的推断性意见; 支持这种意见的引证和解释

VI ☐ 引用的某些文件

VII ☐ 国际申请中的某些缺陷

VIII ☐ 对国际申请的某些意见

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提交要求书的日期 24.11 月 2003 (24.11.2003)	完成本报告的日期 23.7 月 2004 (22.07.2004)
国际初步审查单位名称和地址 IPEA/CN 中国北京市海淀区西土城路 6 号(100088) 传真号: 86-10-62019451	受权官员  电话号码: 86-10-62084759

## I. 报告的基础

## 1. 关于国际申请中各个部分: \*

☐ 原始提交的国际申请。

☒ 说明书, 第 1、2 页, 原始提交的,  
第 页, 要求书提交的,  
第 页, 的信件提交的。

☒ 权利要求, 第 项, 始提交的,  
第 项, 条约第 19 条修理工改的(附有说明),  
第 项, 要求书提交的。

☒ 附图, 第 1-4 项, 17.5 月 2004 (17.05.2004) 的信件提交的。  
第 1 页, 原始提交的。  
第 页, 随要求书提交的,  
第 页, 的信件提交的。

☐ 说明书中的序列表部分

第 页, 原始要求提交的,  
第 页, 随要求书提交的,  
第 页, 的信件提交的。

## 2. 关于所使用的语言, 除本项下另有说明外, 本国际初步审查单位所获得的或者已向本国际初步审查单位提交的上述所有部分, 所使用的语言均为提交本国际申请时所使用的语言。

本国际初步审查单位所获得的或向本国际初步审查单位提交的这些部分所使用的语言是 \_\_\_\_\_, 这种语言是

☐ 为了国际检索而提交的译本所使用的语言(细则 23.1(b))。☐ 本国际申请公布时所使用的语言(细则 48.3(b))。☐ 为了国际初步审查而提交的译本所使用的语言(细则 55.2 和/或 55.3)。

## 3. 关于本国际申请中所公开的任何核甙酸和/或氨基酸的序列, 本国际初步审查是根据下面的序列表进行的:

☐ 国际申请中所包含的书写形式的序列表。☐ 与国际申请同时提交的计算机可读形式的序列表。☐ 后来以书写形式向本国际初步审查单位提交的序列表。☐ 后来以计算机可读的形式向本国际初步审查单位提交的序列表。☐ 已提交了关于后来提交的书写形式的序列表没有超出原始提交的国际申请所公开的范围的说明。☐ 已提交了关于以计算机可读的形式记载的信息是与书写形式的序列表相同的说明。

## 4. 修改删除了以下内容的:

☐ 说明书, 第 页☐ 权利要求, 第 项☐ 附图, 第 页, 图5. ☐ 由于(某些)修改被认为超出了原始公开的范围, 如补充栏所示, 因此本报告是按照如同没有修改的情况作出的(细则 70.2(c)). \*\*

\* 按照条约第 14 条答复通知时向受理局提交的替换页, 在本报告中被称为“原始提交的”, 这些替换页不作为本报告的附件, 因为它们没有包含修改(细则 70.16 和 70.17)。

\*\* 任何包含这种修改的替换页, 都必须在第 1 项中指出, 并作为本报告的附件。

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# 国际初步审查报告

国际申请号

PCT/CN03/00585

## V. 按条约 35 条(2)关于新颖性、创造性或工业实用性的推断性意见；支持这种意见的引证和解释

### 1. 意见

新颖性(N)	权利要求 1-4	是
	权利要求	否
创造性(IS)	权利要求 1-4	是
	权利要求	否
工业实用性(IA)	权利要求 1-4	是
	权利要求	否

### 2. 引征和解释（细则 70.7）

权利要求 1-4 符合 PCT 条约第 33 条 2 至 4 款的规定，因为在现有技术中并未披露具有气泵和复位弹簧的利用气体压力产生爆鸣的玩具装置。

（未引用新的对比文件）

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SY-03-P-13

## 权 利 要 求

1、一种气爆玩具装置，其特征在于：含有枪体 1，电源开关 2，胶膜 3，扳机机构 4，气泵 5，复位弹簧 6，密封体 7，枪口 8，绕带机构 9，电源 10。

2、根据权利要求 1 所说的气爆玩具装置，其特征在于胶膜 3 由乳胶或合成橡胶制作，厚度小于 1 毫米，成带状，也可以与塑料薄膜复合而成，置于密封体 7 或枪口 8 之间，由移动密封体 7 到枪口 8 处，夹紧胶膜 3 形成密封。

3、根据权利要求 1 所说的气爆玩具装置，其特征在于扳机机构 4 上部为凸轮状，以杠杆力推动气泵 5 和密封体 7 向枪口 6 运动，在复位弹簧的作用下复位。

4、根据权利要求 1 所说的气爆玩具装置，其特征在于绕带机构 9 由主、从动轮及传动机构组成，胶膜 3 先缠绕到从动轮上，再连结到主动轮上，随着主动轮旋转，不断将用后的废胶膜缠绕到主动轮上，同时将新胶膜送至枪口。

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